GDAAC Notes for
MODIS Technical Team Meeting (3/12/98)

ECS-SYSTEM — STATUS: YELLOW

•--> Unable to complete PGE integration due to baseline directory/file permission limitations. Undocumented aspects of the system are being investigated.
- Current Drop is 3.0x

ECS-SSIT — SSIT STATUS: YELLOW

•--> Updated leapsec.dat and utcpole.dat files are available and must be inserted into the DAAC baseline (Yellow).
- Verification of Drop 3.0x pending completion of full integration of PGE02 into ECS. Full integration procedures are being documented and will be used for all subsequent PGEs.

MAPI — SSIT STATUS: YELLOW

Problem: Error list documentation (see PGE01 description)

- Delivered (2/11/98);
- Inspection complete (2/19/98).
- Installation and build verification complete (2/24/98).

SDST TK — SSIT STATUS: YELLOW

Problems: Error list documentation (see PGE01 description) (Yellow)

- Delivered (2/11/98); Inspection completed (2/17/98).
- Installation and build verification complete (2/27/98).

PGE01 — SSIT STATUS: YELLOW

Problem: DAAC cannot promote PGE to operations without error list documentation, lien pending; resolution schedule pending SDST communication with algorithm developers.(Yellow)

- Delivered (2/6/98); Inspection completed (2/9/98)
- Patch pending from SDST to address metadata discrepancy (2/13/98).
- Directory structure problem resolved (2/17/98).

•--> Integration I nearly complete (3/11/98).
- DAAC is providing (0.75 FTE) to assist with PGE01 functionality and optimization at SDST's request

PGE02 — SSIT STATUS: YELLOW

Problem: Error list documentation (see PGE01 description). (Yellow)

- Delivered (1/29/98); Inspection completed (2/2/98); Integration I completed (2/4/98)
- Integration II in progress; patch received to fix metadata discrepancy (2/26/98)

PGE03 — SSIT STATUS: YELLOW

Problem: PGE production rules and Error list documentation (see PGE01 description). (Yellow)

- Delivered (2/18/98); Inspection completed (2/20/98); Integration I completed (3/3/98).

•--> Updated SDP Toolkit files delivered (leapsec.dat), regression testing completed (3/10/98).
•--> Integration II pending receipt of PGE production rules information from SDST (3/11/98)

PGE07 — SSIT STATUS: YELLOW

Problem: PGE production rules and Error list documentation (see PGE01 description) (Yellow)

- Delivered (12/5/97); Inspection completed (12/8/97); Integration I completed (12/13/97)
- PGE patch requested (12/17/97); patch delivered (1/20/98); regression testing completed (1/26/98)

- Integration II pending verification of Drop 3.0x and feedback from DAAC to SDST on implementation of production rule from level 1 PGEs.

PGE11 — SSIT STATUS: YELLOW

Problem: PGE production rules (see PGE01 description)

- Delivered (1/7/98); Inspection completed (1/15/98); Integration I completed (1/16/98)
- Integration II pending patch from developer and verification of Drop 3.0x
- Patch delivered (2/4/98); Installation and regression testing completed (2/6/98)
- Patch applied, regression testing completed (2/26/98)
- Integration II pending verification of Drop 3.0x and feedback from DAAC to SDST on implementation of production rule from level 1 PGEs.

PGE08 — SSIT STATUS: YELLOW

Problem: PGE production rules and Error list documentation (see PGE01 description) (Yellow)

- Delivered (1/13/98); Inspection completed (1/15/98); Integration I completed 1/21/98
- Integration II pending verification of Drop 3.0x and feedback from DAAC to SDST on implementation of production rule from level 1 PGEs.

PGE12 — SSIT STATUS: YELLOW

Problem: PGE production rules and Error list documentation (see PGE01 description) (Yellow)

- Delivered (3/4/98); Inspection completed (3/5/98); Integration I completed (3/9/98)
- Integration II pending verification of Drop 3.0x and feedback from DAAC to SDST on implementation of production rule from level 1 PGEs.

PGE13 — SSIT STATUS: YELLOW

Problem: PGE production rules and Error list documentation (see PGE01 description) (Yellow)

- Delivered 3/2/98; PGE Inspection in progress on a time-available basis.

PGE14 — SSIT STATUS: YELLOW

Problem: PGE production rules and Error list documentation (see PGE01 description) (Yellow)

- Delivered 2/27/98; Inspection complete (3/4/98); Integration I complete (3/9/98).
- Integration II pending verification of Drop 3.0x and feedback from DAAC to SDST on implementation of production rule from level 1 PGEs.

PGE15 — SSIT STATUS: YELLOW

Problem: PGE production rules and Error list documentation (see PGE01 description); Metadata Configuration File needed to complete Integration (Yellow)

- Delivered 2/24/98; PGE Inspection complete (3/6/98); Integration I complete (3/10/98)
- Integration II pending verification of Drop 3.0x and feedback from DAAC to SDST on implementation of production rule from level 1 PGEs.

V2 SSIT AGREEMENT

- Baseline agreement pending SDST feedback of 1/9/98
- PGEs delivered prior to mutually baselined agreement or non-compliant with agreement may require remedial work at the DAAC
- DAAC made final baseline modifications based on discussions with SDST; document provided to SDST 1/30/98 for sign-off; signatures pending.
- DAAC working to current Agreement as *de facto* baseline. (1/30/98)

- SDST to provide DAAC with list of outstanding issues; DAAC to attempt final issue resolution (2/18/98).
- SDST provided DAAC with list of outstanding issues, DAAC to provide feedback and revised version of baselined document (2/25/98).
- DAAC feedback complete, document revised and circulated for signatures (2/27/98)
- --> Document formally baselined (3/9/98)

GDAAC/MODIS Operations Agreement

- GDAAC developed draft, circulated for internal edits; edits being made by Stuart Frye. Stuart will be the active Point of Contact for revisions to the document until it is signed. Draft to MODIS & GDAAC for comment 3/2/98.

GDAAC/MODIS Science Agreement

- Need for this document was identified within the GDAAC while drafting the GDAAC/MODIS OA; this document will detail the working agreements between the GDAAC MODIS Data Support Team and the MODIS Science Team, including SDST. These interactions include QA metadata updates and interactions regarding fixes for failed PGEs, among others. Circulated for comment to MODIS & GDAAC 2/23/98.

Concerns:

- --> Identification of archive products versus interim products as well as production site and archive site for L2 and L2G products.
- --> What information does new column in SDST schedule convey? (Working in ECS Testbed)
- PGE01 (V2.1) needed by 4/1/98 to complete SSIT and available for system certification tests. Delivery at cutoff date allows little or no room for error to prepare for system certification tests. Problems encountered with V2.1 may require use of V2.0 in certification testing.
- Maximun number of PGEs DAAC can test is 3 until SSIT staff is fully trained. SSIT staff should be fully trained by 3/31/98.

Number of SSI&T problems reported to date.

	Number of Deliveries/ Patches	Date Completed	Cat. 1 open	Cat. 1 closed	Cat. 2 open	Cat. 2 closed	Cat. 3 open	Cat. 3 closed
MODIS setup	1	ongoing						
Inspection					1	1		
Integration I								
Integration II								
MAPI	3	2/11/98						
Inspection		2/19/98		4	2		3	2
DAACbuild				2		2	3	
SDSTTK	2	2/11/98						
Inspection		2/17/98		8	1	1	1	1
DAACbuild				2		3		2
PGE01	1	2/6/98						
Inspection		2/9/98	2		2		1	
Integration I					2			
Integration II							3 (v1)	1 (v1)
PGE02	1	1/29/98						
Inspection	1	2/2/98		3			2	5
Integration I		2/4/98					1	
Integration II			1					

PGE03	1	2/18/98						
Inspection		2/20/98	1	2	2	1	2	
IntegrationI		3/3/98	1			1	1	
Integration II								
PGE07	1	12/5/97						
Inspection		12/8/97		5		4	1	
Integration I	1	1/27/98				3	1	3
Integration II								
PGE08	1	1/13/98						
Inspection		1/15/98		2		1	2	2
Integration I		1/21/98		1			1	
Integration II								
PGE11	1	1/7/98						
Inspection		1/15/98		5	1	2	1	1
Integration I	2	2/24/98		1	1	2	1	
Integration II								
PGE12	1	3/4/98						
Inspection		3/5/98						
Integration I		3/9/98						
Integration II								
PGE13	1	3/2/98						
Inspection			1				5	3
Integration I								
Integration II								
PGE14	1	2/27/98						
Inspection		3/4/98					2	
Integration I		3/9/98			1			
Integartion II								
PGE15	1	2/24/98						
Inspection		3/6/98	1	1			3	1
Integration I		3/10/98	2					
Integration II								

BACKGROUND

PGEs into System Certification Tests

Best Case: 01, 02, 03, 07, 08, 11
Nominal Case: 01, 02
Worst Case: L0 data ingest

Work days for SSIT	Best Case	Nominal Case
Inspection	1	3
Integration I	2	5
Integration II	4 (est	8 (est)
Patch	1-4	3-8
Error Testing	4	8
Chain Testing	10	15

Best Case: Little or no problems with PGE

Nominal Case: Minor problems encountered and resolved; no major blunders

SSIT Status Codes:

Complete PGE is ready to process data at launch in validation mode or ops mode

Green No problems or Category 1 fixes only; either no liens on PGE or liens worked post-launch

Yellow Problems in test; Category 2 or 3 fix pending; liens placed on PGE with workoff schedule; liens worked off by launch

Red SSIT has stopped; PGE will not run in its current form; fix required before testing can continue

Categories of PGE fixes at the DAAC:

Category 1: GDAAC SSIT staff fix the problem in the DAAC baseline, report action to SDST and continue testing.

Category 2: SDST directs GDAAC SSIT staff, possibly based upon GDAAC recommendation, to fix the problem in the DAAC baseline and continue testing.

Category 3: GDAAC SSIT staff provides Baselined Algorithm Package to SDST to port back to TLCF for bug fixes and possible retesting. SDST then makes redelivery to DAAC.

Phases of SSI&T:

Inspection: Delivered Algorithm Package is inspected for contents and completeness. PGE is inspected for documentation, formats, file structures, and standards compliance.

Integration-I: PGE is built and run from the command line. Generated data product(s) are verified with SDST supplied comparison file(s). (**DAACbuild** for a library)

Integration-II: PGE is registered into ECS, including population of PDPS database. Test data is inserted into the Data Server for staging into production. PGE execution is planned and scheduled through ECS PDPS utilizing Autosys scheduler. Generated product(s) inserted into Data Server. Generated data product is retrieved from Data Server for verification.